# COMMONWEALTH OF VIRGINIA DIVISION OF PURCHASES AND SUPPLY 1111 E. BROAD STREET P. O. BOX 1199 RICHMOND, VIRGINIA 23218-1199

# **NOTICE OF CONTRACT RENEWAL**

1.	DATE	
2.	COMMODITY NAME COMMODITY NUMBER	
3.	CONTRACT NUMBER	
4.	CONTRACT PERIOD	January 1, 2006 through December 31, 2006
5.	SUPERSEDES	03504-20
6.	AUTHORIZED USERS	Dept. of Aviation and Other Public Bodies
7.	CONTRACTOR(S) FEIN NUMBER	
8.	CONTRACTOR	SELEX Sistemi Integrati 11300 West 89 <sup>th</sup> Street Overland Park, KS 66214
9.	CONTRACTOR(S) PHONE NUMBER	(913) 495-2692 Phone / (913) 492-0870 Fax Email: ZEIGLER@US-AMSJ8.COM
10.	TERMS	Net 30
11.	DELIVERY	120 Days ARC
12.	F.O.B	Agency
13.	MINIMUM ORDER	None
14.	FOR FURTHER CONTRACT INFORMATION CONTACT:	Edwin Patterson Phone: (804) 786-3897 Fax: (804) 786-0223 Email: edwin.patterson@dgs.virginia.gov
15.	ADDITIONAL COPIES OF CONTRACTS AND ANY ASSOCIATED CONTRACT CHANGES MAY BE VIEWED AND PRINTED AT THE DPS WEBSITE: www.eva.state.va.us/dps.	
16.	NOTICE TO ALL STATE AGENCIES: This contract is the result of a competitive bid program and its use is mandatory for all State Agencies (unless otherwise indicated in item 6 above) in the purchase of any commodity listed herein. If the commodity or services available under this contract cannot be used by an agency, a request to purchase other goods or services of a similar nature shall be submitted to the appropriate DGS/DPS contract/purchase officer for approval. A complete and factual written justification is necessary to support the request. Refer to Section 13.7a of the Agency Procurement and Surplus Property Manual.	
17.	<b>Note:</b> This public body does not discriminate against faith-based organizations in accordance with the <i>Code of Virginia</i> , § 2.2-4343.1 or against a bidder or offeror because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment.	
	Ву:	Statewide Commodity Contract Officer
		Statewide Commodity Contract Officer

#### INSTRUCTIONS

#### 1. ORDERS:

- A. Unless otherwise instructed by the Division of Purchases and Supply, all departments, institutions and agencies of the Commonwealth of Virginia will order items/services through eVA.
- B. If this contract is authorized for use by localities, Virginia cities, counties, towns and political subdivisions, orders will be placed through eVA to the maximum extent possible.
- 2. The applicable contract number, federal employer identification number (FEI), and item number (for itemized contracts) must be shown on each purchase order and copy, each facsimile transmission or given verbally when telephonic orders are placed.
- 3. Inspection on delivery and approval of vendor's invoice is the responsibility of receiving state agency, Virginia city, county, town or political subdivision.
- 4. Any complaint as to quality, faulty or delinquent delivery, or violation of contract provisions by contractor shall be reported to the Division of Purchases and Supply for handling with the contractor. Preprinted forms (DGS-41-024), by which to facilitate the notification of the contractor and this office of complaints, are available from the Division of Purchases and Supply (786-8873).
- 5. Renewals. One (1), one year renewal remain. The decision as to whether to exercise the next renewal option will be made by the contract officer approximately four to six months in advance of the expiration date of the current term.
- 6. <u>Price Adjustments</u>. During the current term of the contract, price escalation may be allowed every 365 days, if justified. The contract officer makes the decision to allow or deny a request for increase based upon the documentation submitted by the contractor. The contractor is required to pass on any price reductions immediately. **IMPORTANT!** All price increases must be approved by the contract officer. Contract users will be sent a Notice of Contract Change from this office as official notification of such changes, if approved.

# 7. TELEPHONE NUMBERS

NAME OF CONTACT PERSON: <u>DAVE ZEIGLER / SUSAN HOTCHKISS</u>

TELEPHONE NUMBER: (913) 495-2692

FACSIMILE NUMBER: (913) 492-0870

# COMMONWEALTH OF VIRGINIA DEPARTMENT OF AVIATION

#### SPECIFICATIONS FOR ELECTRONIC NAVIGATIONAL EQUIPMENT

October 2, 2001

# I. SCOPE OF WORK

The purpose of this Invitation for Bids (IFB) is to solicit sealed bids from qualified sources to establish a term contract with one (1) qualified firm to supply and deliver Instrument Landing System components (localizer, glide slope, and marker beacon), distance-measuring-equipment (DME), monitor receivers, spare part kits (circuit card assemblies (CCA), modules, and parts), miscellaneous spare parts, and provide technician training during the term of contract on a requirements basis for the Department of Aviation, an Agency of the Commonwealth of Virginia. Installation of equipment will be by the Department or by other parties.

# II. <u>EQUIPMENT</u>

#### A. Localizer

- 1) These systems shall be complete including:
- a. Electronics subsystem <u>sinale eauipment. sinale freauency, sinale monitor</u> suitable for category I operations. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, and power supply functions.
- b. Antenna subsystem, (Option 1) eight (8) element. sinale freauency, log-periodic dipole. Subsystem shall provide rf distribution, rf sampling, rf combining, monitor combining, suppressor networks, cable fault/antenna misalignment, cancellation bridge, inline phasing, integral course, integral width detectors, and frequency difference detector.
- c. Antenna subsystem, (Option 2) <u>fourteen (14) element. sinale frequency. log-periodic dipole</u>. Subsystem shall provide rf distribution, rf sampling, rf combining, monitor combing, suppressor networks, cable fault/antenna misalignment, cancellation bndge, inline phasing, integral course, integral width detectors, and frequency difference detector.
- d. Localizer antenna cable kit for single frequency equipment, <u>300-feet</u> between antenna and shelter. Kit shall include all power, telephone, and rf transmission cables required to interface the localizer antenna array with the localizer equipment shelter.
- e. Junction box assembly shall include ILS transient suppressor circuit card assembly.

- f. Battery kit for single AC power supply, shall include batteries and all equipment to provide power to the electronics subsystem in the event of commercial power failure. Shall be suitable for installation <u>inside</u> of equipment shelter.
- g. Personal computer shall include computer, and all interconnect cable used to view station status and alarm history, set up station parameters, and perform troubleshooting.
- h. Software shall include software and manuals used to view localizer station status and alarm history, set up station parameters, and perform troubleshooting.
- i. Environmental sensors kit.
- Remote maintenance monitoring (rmm) sensors kit.
- k. VHF antenna and installation kit shall include rf cable and connectors.
- I. Installation drawings shall include half-scale copies of the manufacturer's standard (non-site specific) installation drawings for the specified localizer.
- m. Two each complete localizer instruction manuals and system manuals.
- n. Any and all other standard fixtures and components not stated above but necessary to complete in place a working system as accepted by the Commonwealth.
- 2) These systems shall not include:
- Portable Instrument Landing System (ILS) Receiver's (PIR); oscilloscopes; digital voltmeters or other test equipment not necessary to be permanently dedicated to a particular system.
- b. Shelter subsystem.
- c. Far-field monitor kit.
- d. Remote control status unit (rcsu).
- e. Remote status unit (rsu).
- f. "Off-the-air" monitor receiver.
- g. Spares kits.

#### B. Glide Slope

1) Option 1 - This system shall be complete including:

- a. Electronics subsystem <u>single equipment. single frequency. single monitor</u> suitable for category I operations. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, and power supply functions.
- b. Antenna subsystem <u>null reference</u>. single frequency. Subsystem shall provide antenna elements, antenna mounting kit, antenna civil kit, antenna installation kit, distribution uniUcombining unit, and antenna tower.
- 2) Option 2 This system shall be complete including:
  - Electronics subsystem <u>single equipment. single frequency. single monitor</u> suitable for category I operations. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, and power supply functions.
  - b. Antenna subsystem <u>sideband reference</u>. <u>single frequency</u>. Subsystem shall provide antenna elements, antenna mounting kit, antenna civil kit, antenna installation kit, distribution uniUcombining unit, and antenna tower.
- 3) Option 3 This system shall be complete including:
  - a. Electronics subsystem <u>single equipment. dual frequency. single monitor</u> suitable for category I operations. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, and power supply functions.
  - b. Antenna subsystem <u>capture effect. dual frequency</u>. Subsystem shall provide antenna elements, antenna mounting kit, antenna civil kit, antenna installation kit, distribution uniUcombining unit, and antenna tower.
- 4) <u>Each of the above options shall include the following:</u>
  - a. Glide Slope antenna cable kit for single frequency equipment, <u>300-feet</u> between antenna and shelter. Kit shall include all power, telephone, and rf transmission cables required to interface the glide slope antenna array with the glide slope equipment shelter.
  - b. Junction box assembly shall include ILS transient suppressor circuit card assembly.
  - c. Battery kit for single AC power supply, shall include batteries and all equipment to provide power to the electronics subsystem in the event of commercial power failure. Shall be suitable for installation <u>inside</u> of equipment shelter.
  - d. Personal computer shall include computer, and all interconnect cable used to view station status and alarm history, set up station parameters, and perform troubleshooting.

- e. Software shall include software and manuals used to view localizer station status and alarm history, set up station parameters, and perform
- f. Environmental sensors kit. troubleshooting.
- g. Remote maintenance monitoring (rmm) sensors kit.
- h. HF antenna and installation kit shall include rf cable and connectors.
- i. Installation drawings shall include half-scale copies of the manufacturer's standard (non-site specific) installation drawings for the specified localizer.
- j. Two each complete localizer instruction manuals and system manuals.
- k. Any and all other standard fixtures and components not stated above but necessary to complete in place a working system as accepted by the Commonwealth.
- 5) These systems shall not include:
  - a. Portable Instrument Landing System (ILS) Receiver's (PIR); oscilloscopes; digital voltmeters or other test equipment not necessary to be permanently dedicated to a particular system.
  - b. Shelter subsystem.
  - c, Nearfield monitor kit.
  - d. Remote control status unit (rcsu).
  - e. Remote status unit (rsu).
  - f. "Off-the-air" monitor receiver.
  - g. Spares kits.

#### C. Marker Beacon

- 1) Option 1 this system shall be complete including:
  - a. Electronics subsystem <u>sinale eauipment</u>, suitable for category I operations and suitable for <u>outside</u>. pole mounting. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, power supply functions, and transient suppressor functions. Antenna subsystem dual yagi type suitable for outer marker installation, and monitor antenna. Outdoor enclosure with fan required.

- 2) Option 2 this system shall be complete including:
  - Electronics subsystem <u>sinale eauipment</u>, suitable for category I operations and suitable for <u>inside</u>, wall mounting. Subsystem shall provide transmitter, monitor, control, remote maintenance monitor, and power supply functions. Antenna subsystem - dual yagi type suitable for outer marker installation, and monitor antenna.
- 3) Each of the above options shall include the following:
  - a. Marker beacon antenna cable kit for single frequency equipment. Kit shall include all power, telephone, and rf transmission cables required to interface the marker beacon antenna array with the marker beacon equipment.
  - b. Junction box assembly shall include ILS transient suppressor.
  - c. Battery kit for single AC power supply, shall include batteries and all equipment to provide power to the electronics subsystem in the event of commercial power failure:
    - 1. Option 1 shall be suitable for installation inside of equipment shelter, or
    - 2. Option 2 shall be suitable for installation <u>outside</u> of equipment shelter.
  - d. Personal computer shall include computer, and all interconnect cable used to view station status and alarm history, set up station parameters, and perform troubleshooting.
  - e. Software shall include software and manuals used to view marker beacon station status and alarm history, set up station parameters, and perform troubleshooting.
  - f. VHF antenna and installation kit.
  - g. Environmental sensors kit, (inside option).
  - h. Installation drawings shall include half-scale copies of the manufacturer's standard (non-site specific) installation drawings for the specified marker beacon.
  - i. Two each complete marker beacon instruction manuals and system manuals.
  - j. Any and all other standard fixtures and components not stated above but necessary to complete in place a working system as accepted by the Commonwealth.
- 4) These systems shall <u>not include</u>:
  - a. Shelter subsystem.

- b. Remote control status unit (rcsu).
- c. Remote status unit (rsu).
- d. Spares kits.

# D. Glide Slope Conversion Kit

- 1) Single equipment sideband reference kit shall include any and all equipment necessary to complete conversion.
- 2) Single equipment capture effect kit shall include any and all equipment necessary to complete conversion.

# E. <u>Distance-Measuring-Equipment (DME)</u>

- 1) These systems shall be complete including:
  - a. Electronics subsystem <u>single equipment. low power</u>. Subsystem shall provide transponder, monitor, control and display, and power supply functions.
  - b. Antenna omnidirectional.
  - c. DME installation kit shall include all material necessary to install the DME collocated near field to an ILS localizer.
  - d. Transient suppressor(s).
  - e. Battery kit for single AC power supply, shall include batteries and all equipment to provide power to the electronics subsystem and shall be suitable for installation <u>outside</u> of equipment shelter in the event of commercial power failure:
  - f. Personal computer shall include computer, and all interconnect cable used to view station status and alarm history, set up station parameters, and perform troubleshooting.
  - g. Software shall include software and manuals used to view DME station status and alarm history, set up station parameters, and perform troubleshooting.
  - h. Installation drawings shall include half-scale copies of the manufacturer's standard (non-site specific) installation drawings for the specified DME.
  - i. Environmental sensors kit.
  - j. Two each complete DME instruction manuals and system manuals.

- k. Any and all other fixtures and components not stated above but necessary to complete in place a working system as accepted by the Commonwealth.
- 2) These systems shall <u>not include</u>:
  - a. Shelter subsystem.
  - b. Remote control status unit (rcsu).
  - c. Remote status unit (rsu).
  - d. "Off-the-air" monitor receiver.
  - e. Spares kits.

# F. "Off-the-air" monitor receiver

- 1) Monitor receiver, VHF, for localizer, shall include the appropriate VHF antenna and shall be capable of receiving the localizer signal at least two (2) nautical miles (line-of-sight) from the localizer.
- 2) Monitor receiver, UHF, for glide slope, shall include the appropriate UHF antenna and shall be capable of receiving the glide slope signal at least two (2) nautical miles (line-ofsight) from the glide slope.
- 3) Monitor receiver, for DME, shall include the appropriate antenna and shall be capable of receiving the DME signal at least two (2) nautical miles (line-of-sight) from the DME.

#### G. Spare Part Kits

- 1) Localizer, single equipment, single frequency, single monitor, unique.
- 2) Glide slope, single equipment, single frequency, single monitor, unique.
- 3) Glide slope, single equipment, dual frequency, single monitor, unique.
- 4) Localizer/glide slope, single equipment, single frequency, single monitor, common.
- 5) Marker beacon, single equipment.
- 6) DME, single equipment, low power, spare modules kit.
- 7) DME, single equipment, low power, site spares kit.

# H. Spare/Replacement Parts

Any singular spare/replacement parts as typically provided by the manufacturer.

#### III. VERIFICATION TRAINING

Theory of operation and/or equipment specific training shall be provided on the Contractor's ILS and DME. FAA-approved factory training, at the Contractor's location. (option one), and at the Department's location. (option two), shall be provided within ninety (90) days of the Department's written request to train two (2) or more technicians, and within one-hundred eighty (180) days to train one (1) technician.

Provide cost breakout to show base rate plus per person costs for each option. Separate training courses on the ILS, and the DME will be provided. Training cost shall include cost of instruction and required supplies and books only. Cost of transportation, lodging, and meals of the Department's technicians under option one shall be the Department's responsibility.

## IV. <u>EQUIPMENT APPROVALS</u>

#### General

AIILS components (localizer, glide slope, and marker beacon) and distance-measuring-equipment (DME) shall be solid state and of proven design as demonstrated by installed and commissioned systems. The system shall be approved under Federal Aviation Regulation (FAR) Part 171 and under Annex 10 to the Convention on International Civil Aviation (ICAO).

The equipment provided must be FAA "type accepted" for Airport Improvement Program (AIP) funding, for potential "take over" by the FAA, and inclusion in the National Airspace System (NAS) as prescribed in FAA Order 6700.20A, dated December 11, 1992, "Non-Federal Navigational Aids and Air Traffic Control Facilities," chapter 4, "Assumption of Ownership of Non-Federal Facilities."

#### V. <u>DELIVERY</u>

Equipment shall be delivered directly by the Contractor to a third party selected by the Department of Aviation. Equipment shall be delivered by the Supplier Contractor no later than one-hundred twenty (120) days following receipt of an order from the Department of Aviation.

# VI. SPECIFIC REQUIREMENTS AND SUBMITTALS

- A. Submit with bids documentation from the FAA that the equipment meets the specifications contained herein. Systems offered must be compatible and capable of interfacing with other manufacturer's systems, Le. any other ILS functions.
- B. Submit a reference list of at least two (2) similar systems that has been installed, ground inspected, flight inspected, or commissioned by the FAA prior to the award of this contract. Provide the name, phone number and address for contact person at each location. Bidders shall make available their most recent fiscal year financial statements along with auditor's opinions, Le., Income Statement and Balance Sheet upon request, along with a list of Company personnel with qualifications who will provide technical support for the offered systems.
- C. Submit with bid a training package. The training provided by the Contractor shall be in-depth to the extent that only "theory of operation" and "performance" examinations administered by the FAA in any given area office will be necessary for FAA verification on any and all components offered. A statement from the FAA, Eastern Region, showing approval of the Bidder's training program must accompany the bid when submitted.